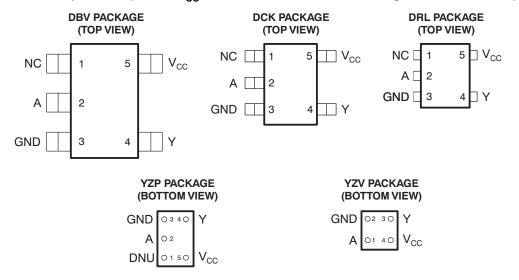


FEATURES

- Available in the Texas Instruments
 NanoFree[™] Package
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Unbuffered Output
- Max t_{pd} of 3.7 ns at 3.3 V
- Low Power Consumption, 10-μA Max I_{CC}

- ±24-mA Output Drive at 3.3 V
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)



See mechanical drawings for dimensions.

NC - No internal connection

DNU - Do not use

DESCRIPTION/ORDERING INFORMATION

This single inverter gate is designed for 1.65-V to 5.5-V V_{CC} operation.

The SN74LVC1GU04 contains one inverter with an unbuffered output and performs the Boolean function $Y = \overline{A}$.

NanoFree[™] package technology is a major breakthrough in IC packaging concepts, using the die as the package.

Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

NanoFree is a trademark of Texas Instruments.



ORDERING INFORMATION

T _A	PACKAG	E ⁽¹⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING ⁽²⁾	
	NanoFree [™] – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Deal of 2000	SN74LVC1GU04YZPR	CD_	
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZV (Pb-free)	Reel of 3000	SN74LVC1GU04YZVR		
–40°C to 85°C	COT (COT 22) DDV	Reel of 3000	SN74LVC1GU04DBVR	CUA	
	SOT (SOT-23) – DBV	Reel of 250	SN74LVC1GU04DBVT	CU4_	
	SOT (SC 70) DCK	Reel of 3000		0.0	
	SOT (SC-70) – DCK	Reel of 250	SN74LVC1GU04DCKT	CD_	
	SOT (SOT-553) - DRL	Reel of 4000	SN74LVC1GU04DRLR	CD_	

- (1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.
- (2) DBV/DCK/DRL: The actual top-side marking has one additional character that designates the assembly/test site. YZP: The actual top-side marking has three preceding characters to denote year, month, and sequence code, and one following character to designate the assembly/test site. Pin 1 identifier indicates solder-bump composition (1 = SnPb, = Pb-free). YZV: The actual top-side marking is on two lines. Line 1 has four characters to denote year, month, day, and assembly/test site. Line 2 has two characters which show the family and function code. Pin 1 identifier indicates solder-bump composition (1 = SnPb, = Pb-free).

FUNCTION TABLE

INPUT A	OUTPUT Y
Н	L
L	Н

LOGIC DIAGRAM (POSITIVE LOGIC) DBV, DCK, DRL, and YZP PACKAGE



YZV PACKAGE



SN74LVC1GU04 SINGLE INVERTER GATE

Absolute Maximum Ratings⁽¹⁾

over operating free-air temperature range (unless otherwise noted)

			RATING	UNIT	
V_{CC}	Supply voltage range		-0.5 to 6.5	V	
VI	Input voltage range (2)		0.5 to 6.5	V	
Vo	Voltage range applied to any output in the	Voltage range applied to any output in the high or low state (2)(3)			
I _{IK}	Input clamp current	V _I < 0	-50	mA	
I _{OK}	Output clamp current			mA	
Io	Continuous output current	±50	mA		
	Continuous current through V _{CC} or GND		±100	mA	
		DBV package	206		
		DCK package	252		
θ_{JA}	Package thermal impedance (4)	DRL package	142	°C/W	
		YZP package	132		
		YZV package	116		
T _{stg}	Storage temperature range		-65 to 150	°C	

⁽¹⁾ Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT	
V_{CC}	Supply voltage		1.65	5.5	V	
V_{IH}	High-level input voltage	$I_{O} = -100 \mu\text{A}$	$0.75 \times V_{CC}$		V	
V_{IL}	Low-level input voltage	I _O = 100 μA		$0.25 \times V_{CC}$	V	
V_{I}	Input voltage	·	0	5.5	V	
Vo	Output voltage		0	V _{CC}	V	
		V _{CC} = 1.65 V		-4		
		$V_{CC} = 2.3 \text{ V}$		-8		
I_{OH}	High-level output current	V _{CC} = 3 V		-16	mA	
		vcc – 3 v		-24		
		V _{CC} = 4.5 V		-32		
		V _{CC} = 1.65 V	4			
		$V_{CC} = 2.3 \text{ V}$	8			
I_{OL}	Low-level output current	V 2.V		16		
		$V_{CC} = 3 V$		24		
		V _{CC} = 4.5 V		32		
T _A	Operating free-air temperature		-40	85	°C	

⁽¹⁾ All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

⁽²⁾ The input and output negative-voltage ratings may be exceeded if the input and output current ratings are observed.

⁽³⁾ The value of V_{CC} is provided in the recommended operating conditions table.

⁽⁴⁾ The package thermal impedance is calculated in accordance with JESD 51-7.



Electrical Characteristics

over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST C	ONDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	UNIT				
		$I_{OH} = -100 \ \mu A$	$_{H} = -100 \ \mu A$ 1.65 V to 5.5 V $V_{CC} - 0.1$								
V _{OH}		$I_{OH} = -4 \text{ mA}$	1.65 V	1.2							
	V 0.V	$I_{OH} = -8 \text{ mA}$	2.3 V	1.9			V				
	$V_{IL} = 0 V$	$I_{OH} = -16 \text{ mA}$	3 V	2.4			V				
		$I_{OH} = -24 \text{ mA}$	3 V	2.3							
		$I_{OH} = -32 \text{ mA}$	4.5 V	3.8							
		I _{OL} = 100 μA	1.65 V to 5.5 V			0.1	.1				
		I _{OL} = 4 mA	1.65 V	0.45							
V	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$I_{OL} = 8 \text{ mA}$	2.3 V	0.:		0.3	V				
V_{OL}	$V_{IH} = V_{CC}$	I _{OL} = 16 mA	3 V			0.4	V				
		I _{OL} = 24 mA	3 V			0.55					
		$I_{OL} = 32 \text{ mA}$	4.5 V			0.55					
I _I A input	V _I = 5.5 V or GND	·	0 to 5.5 V			±5	μΑ				
I _{CC}	$V_I = 5.5 \text{ V or GND},$	I _O = 0	1.65 V to 5.5 V			10	μΑ				
C _i	$V_I = V_{CC}$ or GND		3.3 V		7		рF				

⁽¹⁾ All typical values are at V_{CC} = 3.3 V, T_A = 25°C.

Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (See Figure 1)

PARAMETER	FROM (INPUT)	TO (INPUT)		V _{CC} = 1.8 V ± 0.15 V		V_{CC} = 2.5 V \pm 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V	
	(INFOT)	(INFOT)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	Α	Y	1.3	5	1	4	1.1	3.7	1	3	ns

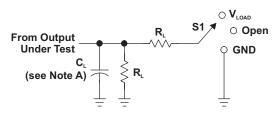
Operating Characteristics

 $T_A = 25^{\circ}C$

PARAMETER		TEST CONDITIONS	V _{CC} = 1.8 V	V _{CC} = 2.5 V	$V_{CC} = 3.3 \text{ V}$	V _{CC} = 5 V	UNIT
	FARAMETER	TEST CONDITIONS	TYP	TYP	TYP	TYP	UNIT
C_{pd}	Power dissipation capacitance	f = 10 MHz	9	11	13	27	pF



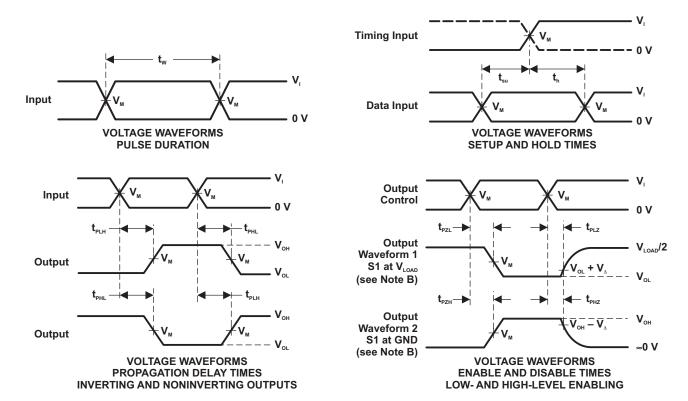
PARAMETER MEASUREMENT INFORMATION



TEST	S1
t _{PLH} /t _{PHL}	Open
t_{PLZ}/t_{PZL}	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

LOAD CIRCUIT

V	INF	PUTS	V	V		D	.,	
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C _L	R _L	V _A	
1.8 V ± 0.15 V	V_{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	1 k Ω	0.15 V	
2.5 V ± 0.2 V	V_{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	500 Ω	0.15 V	
3.3 V ± 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V	
5 V ± 0.5 V	V_{cc}	≤2.5 ns	V _{cc} /2	2 × V _{cc}	50 pF	500 Ω	0.3 V	



NOTES: A. C_L includes probe and jig capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_o = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and \dot{t}_{PHZ} are the same as t_{dis} .
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. t_{PLH} and t_{PHL} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms





i.com 8-Dec-2008

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
74LVC1GU04DBVRE4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC1GU04DBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC1GU04DBVTE4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC1GU04DBVTG4	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC1GU04DCKRE4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC1GU04DCKRG4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC1GU04DCKTE4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC1GU04DCKTG4	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74LVC1GU04DRLRG4	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1GU04DBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1GU04DBVT	ACTIVE	SOT-23	DBV	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1GU04DCKR	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1GU04DCKT	ACTIVE	SC70	DCK	5	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1GU04DRLR	ACTIVE	SOT	DRL	5	4000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1GU04YZPR	ACTIVE	DSBGA	YZP	5	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM
SN74LVC1GU04YZVR	ACTIVE	DSBGA	YZV	4	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.



PACKAGE OPTION ADDENDUM

8-Dec-2008

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

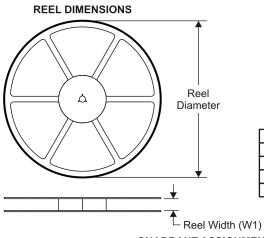
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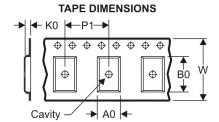
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PACKAGE MATERIALS INFORMATION

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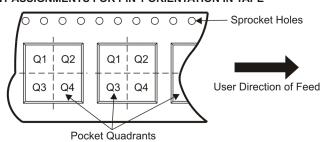
TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
	Dimension designed to accommodate the component length
	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE

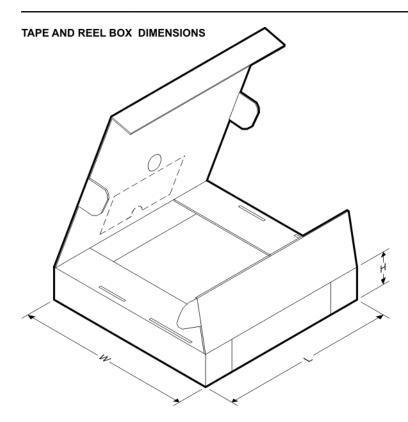


*All dimensions are nominal

Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LVC1GU04DBVR	SOT-23	DBV	5	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1GU04DBVT	SOT-23	DBV	5	250	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1GU04DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1GU04DCKR	SC70	DCK	5	3000	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74LVC1GU04DCKT	SC70	DCK	5	250	180.0	9.2	2.24	2.34	1.22	4.0	8.0	Q3
SN74LVC1GU04DCKT	SC70	DCK	5	250	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1GU04DRLR	SOT	DRL	5	4000	180.0	9.2	1.78	1.78	0.69	4.0	8.0	Q3
SN74LVC1GU04YZPR	DSBGA	YZP	5	3000	180.0	8.4	1.02	1.52	0.63	4.0	8.0	Q1
SN74LVC1GU04YZVR	DSBGA	YZV	4	3000	180.0	8.4	1.02	1.02	0.63	4.0	8.0	Q1

PACKAGE MATERIALS INFORMATION

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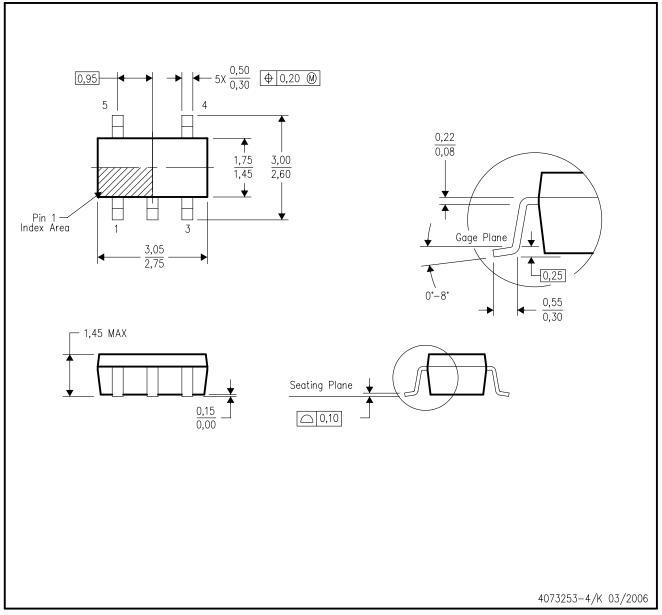


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC1GU04DBVR	SOT-23	DBV	5	3000	180.0	180.0	18.0
SN74LVC1GU04DBVT	SOT-23	DBV	5	250	180.0	180.0	18.0
SN74LVC1GU04DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
SN74LVC1GU04DCKR	SC70	DCK	5	3000	205.0	200.0	33.0
SN74LVC1GU04DCKT	SC70	DCK	5	250	205.0	200.0	33.0
SN74LVC1GU04DCKT	SC70	DCK	5	250	180.0	180.0	18.0
SN74LVC1GU04DRLR	SOT	DRL	5	4000	202.0	201.0	28.0
SN74LVC1GU04YZPR	DSBGA	YZP	5	3000	220.0	220.0	34.0
SN74LVC1GU04YZVR	DSBGA	YZV	4	3000	220.0	220.0	34.0

DBV (R-PDSO-G5)

PLASTIC SMALL-OUTLINE PACKAGE



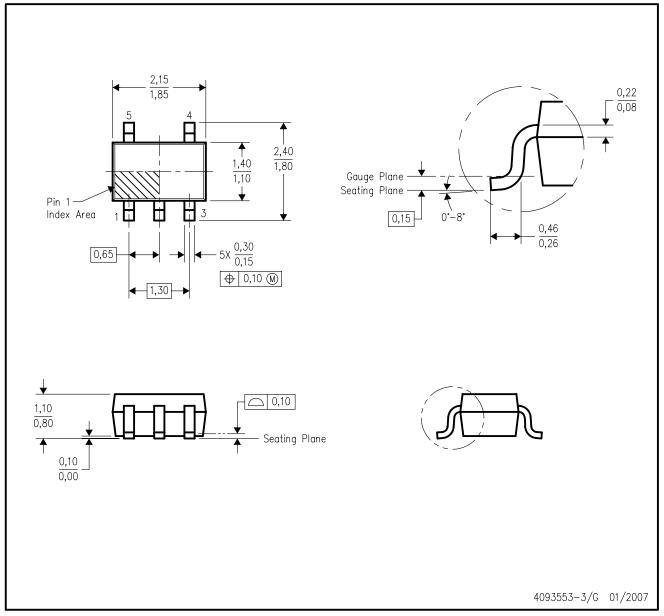
NOTES:

- A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
- D. Falls within JEDEC MO-178 Variation AA.



DCK (R-PDSO-G5)

PLASTIC SMALL-OUTLINE PACKAGE



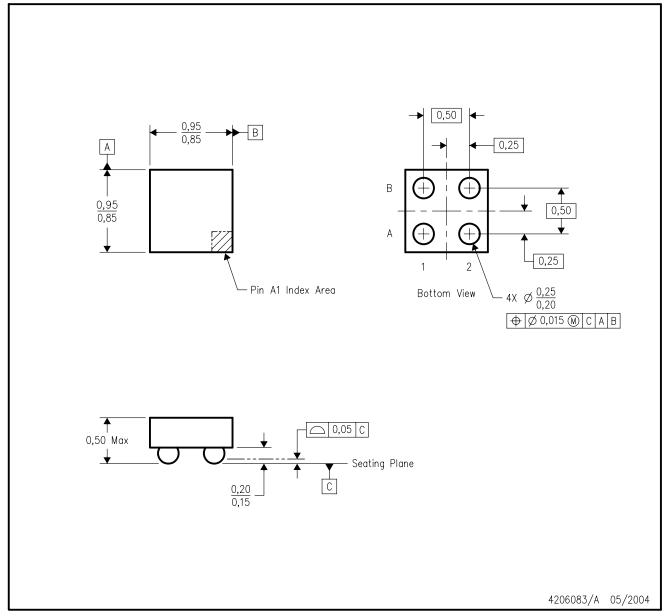
NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
- D. Falls within JEDEC MO-203 variation AA.



YZV (S-XBGA-N4)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters.

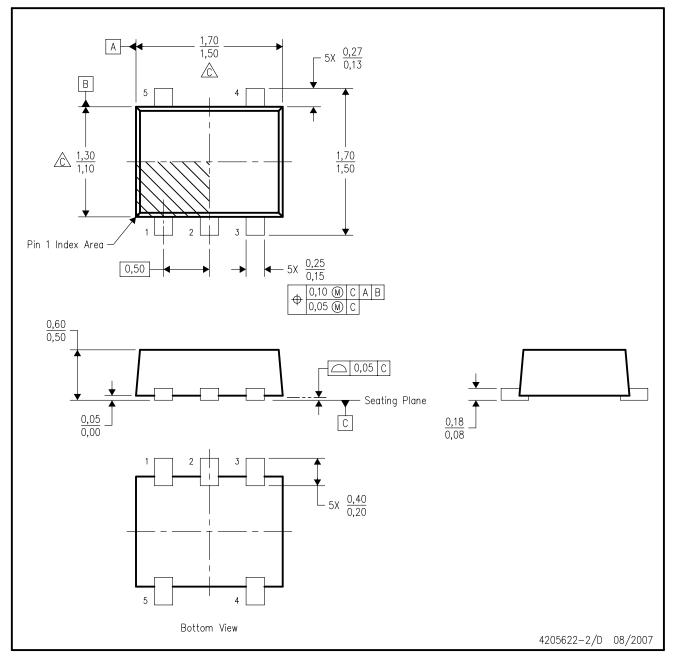
- B. This drawing is subject to change without notice.
- C. NanoFree $^{\text{TM}}$ package configuration.
- D. This package contains lead-free balls. Refer to the 4 YEV package (drawing 4206082) for tin-lead (SnPb) balls.

NanoFree is a trademark of Texas Instruments.



DRL (R-PDSO-N5)

PLASTIC SMALL OUTLINE



NOTES:

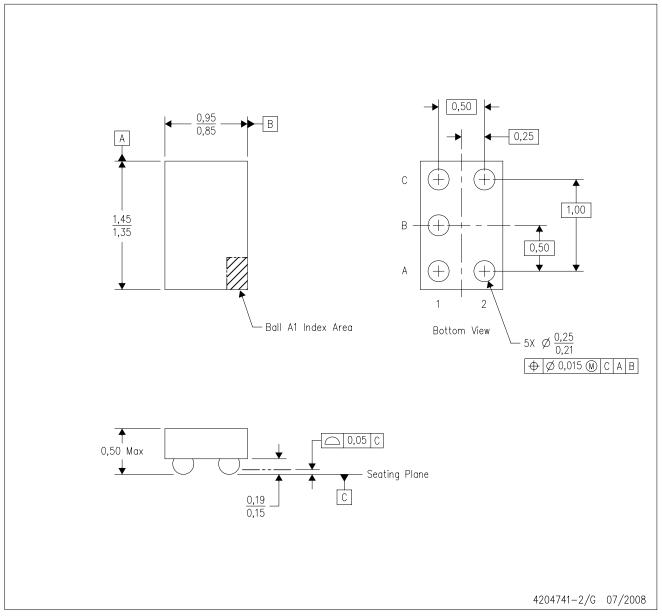
- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
- Body dimensions do not include mold flash, interlead flash, protrusions, or gate burrs.

 Mold flash, interlead flash, protrusions, or gate burrs shall not exceed 0,15 per end or side.
- D. JEDEC package registration is pending.



YZP (R-XBGA-N5)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. NanoFree $^{\text{TM}}$ package configuration.
- D. This package is lead-free. Refer to the 5 YEP package (drawing 4204725) for tin-lead (SnPb).

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